## **Energy Conservation**

The \$7.9 million Energy Conservation program is funded with General, Civic Plaza, Wastewater and Water operating funds. This program includes projects to continue the City's energy conservation and cost reduction efforts at various City facilities.

The City's Energy Conservation program has been in place for more than 20 years. Through the program's efforts in addressing energy efficient retrofits, energy efficient design and management, metering for efficient operations, and implementation of new technology, the annual cost savings average \$250,000.

CITY OF PHOENIX, ARIZONA

## 2004-2009 CAPITAL IMPROVEMENT PROGRAM

## **Energy Conservation**

Capital Improvement Program Summary

Project Summary		2004-05	 2005-06	2006-07	2007-08	 2008-09	Total
Energy Projects	\$	2,060,500	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 7,860,500
Total	\$	2,060,500	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 7,860,500
Source of Funds							
Operating Funds							
General Fund	\$	1,057,500	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 4,057,500
Civic Plaza Revenue		388,000	200,000	200,000	200,000	200,000	1,188,000
Wastewater Operating		415,000	300,000	300,000	300,000	300,000	1,615,000
Water Operating		200,000	200,000	200,000	200,000	200,000	 1,000,000
Total Operating Funds	\$	2,060,500	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 7,860,500
Total Sources of Funds	-\$	2,060,500	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 7,860,500

CITY OF PHOENIX, ARIZONA

## City of Phoenix, Arizona 2004-2009 Capital Improvement Program Energy Conservation

Project No.	Project Title	2004-05	2005-06	2006-07	2007-08	2008-09	Tota
PW34030009 ENERGY CONSERVATION - GENERAL		ION - GENERAL	Function	District: Citywide			
	energy conservation project ontrol systems.	cts including efficient lighti	ng, energy effici	ent chillers, elect	tric meters & en	ergy managem	ent
Construction		1,057,500	750,000	750,000	750,000	750,000	4,057,500
Pro	ject Total	\$1,057,500	\$750,000	\$750,000	\$750,000	\$750,000	\$4,057,500
General Fund		1,057,500	750,000	750,000	750,000	750,000	4,057,500
Fun	ding Total	\$1,057,500	\$750,000	\$750,000	\$750,000	\$750,000	\$4,057,500
PW34030010	ENERGY CONSERVAT	ION-WASTEWATER	Function	n: Energy Proje	ects	Distri	ct: Citywide
	unds energy conservation pontrol systems.	projects including efficient	lighting, energy	efficient chillers,	electric meters	& energy mana	agement
Construction		415,000	300,000	300,000	300,000	300,000	1,615,000
	!4 <b>T</b> -4-1	\$415,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,615,000
Pro	ject Total	• •					
		415,000	300,000	300,000	300,000	300,000	1,615,000
Wastewater R			300,000 <b>\$300,000</b>	300,000 <b>\$300,000</b>	300,000 <b>\$300,000</b>	300,000 <b>\$300,000</b>	1,615,000 <b>\$1,615,000</b>
Wastewater R Fun	levenues	415,000 <b>\$415,000</b>	\$300,000	, , , , , , , , , , , , , , , , , , , ,	\$300,000	\$300,000	
Wastewater R Fun PW34030011 Water funds e	devenues ding Total ENERGY CONSERVAT	415,000 <b>\$415,000</b>	\$300,000 Function	\$300,000 n: Energy Proje	\$300,000	\$300,000 Distri	\$1,615,000 ct: Citywide
Wastewater R Fun PW34030011 Water funds e temperature co	devenues ding Total ENERGY CONSERVAT	415,000 <b>\$415,000</b> TON-WATER	\$300,000 Function	\$300,000 n: Energy Proje	\$300,000	\$300,000 Distri	\$1,615,000 ct: Citywide
Wastewater R Fun PW34030011 Water funds e temperature co	devenues ding Total ENERGY CONSERVAT	415,000 \$415,000 TON-WATER ts including efficient lightin	\$300,000 Function g, energy efficie	\$300,000 n: Energy Proje nt chillers, electr	\$300,000 ects ric meters & ene	\$300,000  Distriergy management	\$1,615,000 ct: Citywide ent
Wastewater R Fun PW34030011 Water funds e temperature co	elevenues  iding Total  ENERGY CONSERVAT  energy conservation project ontrol systems.	415,000 \$415,000 TON-WATER ts including efficient lightin 200,000	\$300,000  Function g, energy efficient 200,000	\$300,000 n: Energy Project chillers, electres 200,000	\$300,000 ects ric meters & ene 200,000	\$300,000  Distriergy management	\$1,615,000 ct: Citywide ent
Wastewater R Fun PW34030011 Water funds e temperature construction Proj	elevenues  iding Total  ENERGY CONSERVAT  energy conservation project ontrol systems.	415,000 \$415,000 TION-WATER ts including efficient lightin 200,000 \$200,000	\$300,000  Function g, energy efficie  200,000  \$200,000	\$300,000 n: Energy Proje ant chillers, electr 200,000 \$200,000	\$300,000 ects ric meters & ene 200,000 \$200,000	\$300,000  Distriergy management 200,000 \$200,000	\$1,615,000 ct: Citywide ent 1,000,000 \$1,000,000
Wastewater R Fun PW34030011 Water funds e temperature compenstruction Proj Water Revenu Fun	EVERGY CONSERVAT  ENERGY CONSERVAT  Interrupt conservation project  ontrol systems.  ject Total	415,000 \$415,000 TION-WATER ts including efficient lightin 200,000 \$200,000 200,000 \$200,000	\$300,000  Function g, energy efficie  200,000  \$200,000  200,000  \$200,000	\$300,000  n: Energy Project nt chillers, electr  200,000  \$200,000  200,000	\$300,000  ects  ic meters & ene  200,000  \$200,000  200,000  \$200,000	\$300,000  Distri  rgy manageme  200,000  \$200,000  200,000  \$200,000	\$1,615,000 ct: Citywide ent 1,000,000 \$1,000,000 1,000,000 \$1,000,000
Wastewater R Fun PW34030011 Water funds e temperature construction Proj Water Revenu Fun PW34030012 Civic Plaza fur	ENERGY CONSERVAT In ergy conservation project ontrol systems.  ject Total les ding Total ENERGY CONSERVAT	415,000 \$415,000 TION-WATER ts including efficient lightin 200,000 \$200,000 200,000 \$200,000	\$300,000  Function g, energy efficie  200,000  \$200,000  200,000  \$200,000  Function	\$300,000  n: Energy Project 200,000 \$200,000 200,000 \$200,000 \$1: Energy Project	\$300,000  ects  ric meters & ene  200,000  \$200,000  200,000  \$200,000	\$300,000  Distriergy management  200,000  \$200,000  200,000  \$200,000  Distriergy management  200,000	\$1,615,000 ct: Citywide ent 1,000,000 \$1,000,000 1,000,000 \$1,000,000 ct: Citywide
Wastewater R Fun PW34030011 Water funds e temperature construction Proj Water Revenu Fun PW34030012 Civic Plaza fur temperature construction	ENERGY CONSERVAT  inergy conservation project control systems.  ject Total les ding Total  ENERGY CONSERVAT and energy conservation pro	415,000 \$415,000 TION-WATER ts including efficient lightin 200,000 \$200,000 200,000 \$200,000	\$300,000  Function g, energy efficie  200,000  \$200,000  200,000  \$200,000  Function	\$300,000  n: Energy Project 200,000 \$200,000 200,000 \$200,000 \$1: Energy Project	\$300,000  ects  ric meters & ene  200,000  \$200,000  200,000  \$200,000	\$300,000  Distriergy management  200,000  \$200,000  200,000  \$200,000  Distriergy management  200,000	\$1,615,000 ct: Citywide ent 1,000,000 \$1,000,000 1,000,000 \$1,000,000 ct: Citywide
Wastewater R Fun PW34030011 Water funds e temperature co Construction Proj Water Revenu Fun PW34030012 Civic Plaza fur temperature co	ENERGY CONSERVAT  inergy conservation project control systems.  ject Total les ding Total  ENERGY CONSERVAT and energy conservation pro	415,000 \$415,000  TON-WATER ts including efficient lightin  200,000 \$200,000 200,000 \$200,000 TON-CIVIC PLAZA ojects including efficient lightin	\$300,000  Function g, energy efficient 200,000 \$200,000 200,000 Function shting, energy efficient	\$300,000  a: Energy Project 200,000 \$200,000 200,000 \$200,000 a: Energy Project ficient chillers, electr	\$300,000 ects ric meters & ene 200,000 \$200,000 200,000 \$200,000 ects lectric meters &	\$300,000  Districtor management   200,000  \$200,000  200,000  Districtor management   200,000	\$1,615,000 ct: Citywide ent 1,000,000 \$1,000,000 \$1,000,000 ct: Citywide ement
Wastewater R Fun PW34030011 Water funds e temperature compension Proj Water Revenu Fun PW34030012 Civic Plaza fur temperature compension Construction	ENERGY CONSERVAT Intergy conservation project control systems.  ject Total less ding Total  ENERGY CONSERVAT and energy conservation project control systems.	415,000 \$415,000  TION-WATER ts including efficient lightin  200,000 \$200,000 200,000 \$200,000 TION-CIVIC PLAZA ojects including efficient lightin	\$300,000  Function g, energy efficient 200,000 \$200,000 200,000 Function phting, energy efficient	\$300,000  a: Energy Project Chillers, electron 200,000 \$200,000 \$200,000 \$200,000  a: Energy Project Chillers, electron 100,000  200,000	\$300,000  ects ric meters & ene  200,000  \$200,000  200,000  \$200,000  ects lectric meters &	\$300,000  Distriction of the control	\$1,615,000 ct: Citywide ent 1,000,000 \$1,000,000 \$1,000,000 ct: Citywide ement